

DIGITAL SIGNAL PROCESSING TECHNIQUES FOR IMPROVING AUDIO CLARITY AND INTELLIGIBILITY

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ABSTRACT OF THE DISCLOSURE

Methods and apparatus are described for effecting multi-band processing of an original sampled signal. The original sampled signal is separated into a plurality of signal components each corresponding to one of a plurality of frequency bands. A dynamic range associated with each one of the plurality of signal components is independently and dynamically controlled. At least one signal level associated with the plurality of signal components is modified. The signal components are combined into a processed sampled signal.